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Kc. and 165.5 Mc. No frequency checks are available.

# AMATEUR RADIO

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#### EDITORIAL

\*

#### T.V. AS SHE IS SEEN

Radio Amateurs recently returned from abroad have given us some interesting reactions to T.V. as practiced in U.K.

England, with its 40 odd million people, is fed with a single channel of what we would call "A" class T.V. Recent events over there indicate the trend towards mixing in a flavour of "B" class or commercial advertising.

Wave propagation at TV. frequencies gives comparatively short-range results. The problems of the country of ourse was a supplement of the country of ourse will be great. As we have read, marked, learned and for TV. here as a single channel National Station using an amount of Ta. Change productions. The balance of the time may possibly be sold to which the country of the competition of the comparative of the comparative that the comparative country is the comparative that the comparative country is the comparative country and the comparative country in the content of the content of the content of the country in the content of the content of the content of the content of the country in the country in

The U.K. Amateurs have a privilege we are striving to establish for the Australian Amateur. Over there frequencies of 420-5,650 Mc. and 10,000 Mc. are available to Amateurs

individually and collectively. Numerous TV. Chib have developed their covers to the property of the property of the control of

The authorities must grant us our rightful place in the T.V. planning now in process; the ability to spend our own capital; to go on the air and experience the intricacles of T.V.

It is difficult to estimate the direct and indirect value to the Nation of encouraging us to work on this highly technical development. Stiffing our enterprise and initiative could easily prove to be tragical. Therefore let the encouragement we deserve be displayed by giving us our place "on the air with T.V."

-FEDERAL EXECUTIVE

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## A Special Multiband Antenna

BY HANS J. ALBRECHT.\* VK3AHH

the most important component at any transmitting station. Its type and con-struction may enable us to gain quite considerable power in certain directions. It is relatively easy to obtain a maximum field intensity in one direction in one restricted frequency range, as for instance one Ham band.

This is usually done by combining several half-wave dipoles in a collinear or parallel array with the corresponding phase differences which are either obtained by mounting parasitic elements the correct distance or by using driven elements in the correct distance and driven in the right phase with respect to the main element. Such systems are normally called "beams." If the array can be rotated, mechanically or electrically, a well-performing antenna is obtained—but only for one band, because (i.) the phase relation of all rays originating at each element and arriving at a distant point is changed as the operating wavelength is altered and thus the radiation pattern is different, and (ii.) a considerable mismatch occurs in a flat transmission line when the band of operation is changed. Moreover, beams of such a kind become impracticable on frequen-cies below 14 Mc. because of their physical dimensions.

Thus ordinary wire antennae are still very common for multiband operation. They can be used on all bands in harmonic relation, as is generally known, if resonant transmission lines employed. The length may made fairly long compared with the operating wavelength if enough space is available and thus the antenna can be \* 10 Belgravia Ave., Box Hill North, E.12, Vic.

It is well known that the antenna is directive with considerable gain in its main lobes with respect to the intensity of a reference radiator, i.e. the isotropic radiator or half-wave dipole.

Beside a satisfactory directivity the horizontal plane, an antenna for DX work should have a low vertical angle of radiation to secure favourable reflection conditions at the ionospheric layer. On the other hand, it must be remembered that radiation with a vertical angle below about three degrees is generally lost because of ground losses. In the following, the writer wants to describe a special type of long-wire

antenna, particularly designed for DX work on all bands lower than 30 Mc. and general communication on 7 and 3.5 Mc.

Its main features may be listed as follows:-

(1) The radiation is concentrated in a low vertical angle with several

main lobes in the horizontal plane. (2) The directions of the main lobes may be changed by operating a simple switching device, main-taining the low angle of radia-

(3) The gain at low vertical angles is considerable in the main lobes. (4) The single components of the complete antenna may be combined in various manners so that almost all directions may be covered on all bands lower than 30 Mc. and higher angles may conveniently be obtained below

about 8 Mc. (5) The antenna does not require

much space and the cost of its construction is negligible compared with that of a beam system.

(6) Its operation is simple and no critical adjustment is required.

GENERAL DESCRIPTION

The antenna consists of a horizontal section and a semi-vertical one. Each section is 67 feet long, thus a full wavelength on the 20 metre hand, which we shall take as the reference band for this description. Two poles hold the hori-zontal portion at a height of about 30 feet, while the semi-vertical section slopes down at an angle of about 26 stopes down at an angle of about 26 degrees (with respect to ground) as shown in Fig. 1. The bottom end is held about one foot above ground by means of a small post. Both portions are of course insulated at both ends and at their junction which is the feeding point.



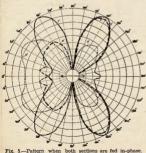
Fig. 1.-Layout of Antenna.

The feeder used at the writer's station consists of two separate tuned open-wire lines, each of which is supplyopen-were lines, each of which is supply-ing power to one section. A so-called triple-wire feeder may, however, be substituted without affecting the final result. (Such a triple-wire feeder is often used with centre-fed full-wave antennae in order to change the phasing the radiation pattern.

The separate feeder lines or one triple-wire feeder allow both sections to be used separately or both combined and fed (a) in phase, or (b) 180 degrees out of phase.

The length of the feeder has to be such that it operates as a resonant Thus the lines were made about 34 feet long, i.e. a quarter-wave on 7 Mc. (The of longer lines is impracticable at the writer's station, but in spite of this the antenna works, of course, on 80 metres for general communication.)

Fig. 2 shows how the different phase connections are obtained at the antenna coupling unit which is of ordinary



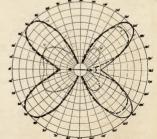


Fig. 6.-Pattern when both sections are fed out-of-phase.

construction for both series and par-allel feeding and therefore does not require any further description. As indicated, only the external feeder sections directly, are utilised in the in-phase connection which is illustrated by Fig. 3. The two inner conductors are not used in this phase connection.



Fig. 2.-Connection of feeder lines at antenna coupling unit. (a) In-Phase: (h) Out-of-Phase.

If, on the other hand, out-of-phase operation is desired, both outer wires hot side of the coupling circuit, while the two inner conductors are also tied together and form, in such a way, the other conductor of the combined feeder. Fig. 4 shows how the desired out-of-phase condition is thus obtained. Single operation of any of the two sections is course carried out in the normal manner and does not require any further comment.



RADIATION PATTERNS

The 20 metre band radiation patterns of the complete antenna were theoreti-cally calculated by the writer for both phase connections. The theoretical were proved by results numerous antenna tests with stations situated in all possible directions and Continents. If any of the two sections is operated separately, the patterns are approxiseparately, the patterns are approxi-mately those given in any handbook for full-wave antennae (with respect to metres). (It must, however, be re-membered that in the case of a semivertical full-wave antenna, the low angle of radiation is increased substantially in some directions which can be realised by considering the pattern of the original horizontal full-wave antenna to be a solid one. It may here be mentioned that the conversion of a horizontal full-wave end-fed antenna to a semi-vertical one often results in a large improvement in its DX perform-



Fig. 4.-Out-of-Phase Condition.

Figures 5 and 6 show the radiation patterns computed for both phase connections of the complete long-wire. The semi-vertical section is always situated toward the left-hand side of both figures. Each pattern is given for three vertical angles of radiation, namely for 5, 10, and 30 degrees. It is obvious that the patterns for 5 and 10 degrees are those of greatest interest for DX work. It may be seen that in both phase connections the intensity is compressed in low angles of radiation. The fact that the 30 degrees pattern is usually of lower intensity indicates that clearly

Fig. 5 shows the pattern when both sections are fed in phase while the out-of-phase connection is represented in Fig. 6.

Comparing both diagrams, we clearly notice the change in the directions of maximum intensity in the horizontal covered by changing the phase connection, while the favourable low angle of radiation is maintained. An intensive 

main lobe in the direction of the wire vertical section alone.

As the frequency of operation in-creases, i.e. on the 21 and 28 Mc. bands, the directions of maximum intensity tend to approach the direction of the wire. The pattern for 40 metre opera-tion is in the in-phase connection that "two half-waves in-phase," sharp lobe perpendicular to the direction of the wire, and for the other phase connection we have a slightly distorted pattern of a full-wave antenna. Patterns for single operation of each section are self-explanatory. (Continued on Page 8)

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Page 4 Amateur Radio, May, 1953

# The 1953 Urunga Convention W.I.A. Notional Field Day.

It is now Tuesday, 7th April, and for many, the 1953 Urunga Convention has ended, but for those remaining at the scene of the activities, peace and quiet will have begun to reign once more

Attendance this year was not as high as in 1952, but I feel certain that the fellowship amongst those present was enhanced rather than diminished by the lack of numbers. In all, 35 call signs, were registered, a grand total of 57.

It was very pleasing to see the attend-ance of the N.S.W. Division President John 2JU, and Hon. Sec., Dave 2EO.
John had a very enjoyable time and was last seen stripped to the singlet and shinning the rafters in the "Do Me" shack whilst Jean Dan kept his famous shack whits Jean Dan kept his zamous pipe in production. Dave also had a wicked gleam in his eyes and some of the stories he told would make even Satan blush! The "Iron Horse," George 4GG, was again present and many old acquaintances were renewed and new ones made. Also Jim 4PR re-acquainted us with our old friend, Pedro the

Apologies were received from many including Hart 2JC, Russ 2WT, whilst Dave 2AYE sent a radiogram from aboard the S.S. Manoora at sea advising that he had resigned the "Consulship that ne had resigned the "Consulship" of Bondi and was now contemplating taking out a VK6 call sign. Letters were also received from "The Monitor." Fred Leader, of New Zealand, wishing the Convention every success and passing 78s to all present.

No Convention can of course proceed smoothly without good organisation which provides for quick action when the unexpected arises, and the work put in by various people to this end is probably not generally realised. All those present will, I am sure, be pleased to acknowledge the efforts put in by 2XO, 2ACU, 2FH, 2AVG, 2NX, Jean Dan, Jean Retallick and their helpers in turn whom they called on from time

Many things happened behind the scenes which will probably never be told, but without which the Convention would not have been the success it proved. I know of some of the things. others other things. Collectively they made for the smooth running of the gathering, and I can assure all readers that the extensive work and personal the organisers and their helpers was for one purpose only, to make the Convention successful for their fellow radio operators and their guests.

The lack of registration this year did not give the Convention a clean balance sheet, but some very generous donations squared the budget. Naturally this state of affairs is not desirable and it is hoped that 1954 Convention will be on a sounder footing financially. It is doubtful if the '33 Convention could be exceeded for friendship or enjoyment and the same fellowship will be available in 1854. The Committee is hoping that more fellows will avail themselves of the good times to be had next Easter.

The following is a list of those whose names appear on the official registration sheets. There were other folk who visited the Convention for short periods, but did not register due to the briefness

George 4GG, Yarraman; Tom 4PD, Brisbane; Jm 4PR, Brisbane; Jm 4PR, Brisbane; Leith 2EA and Merrin, Kangaroo Creek; Dave 2EO, Sydney; John 2GA, Woy Woy; Hart 2JC and Elsie, Narrabri; Jack 2JK, Coff's Harbour; Ken 2KG, Newcastle; Cec. 2ER, Woy Woy; Shorty 2NX, New-Cec. 2KR, Woy Woy; Shorty 2NX, New-castle: Keith Harland, Newesstle: Variez 2SF, Newcastle: Bruce 2SR; Alf 2UC, Lémore; Stan 2UY, Newcastle: QUC, Lémore; Stan 2UY, Newcastle: All Maries, Hall, Newcastle; John 2AAF, Sydney; Alez 2ABU and Jean, Sydney; Ted 2ACD, Sydney; Rod 2ACU, Coonamble: Jack 2ADN and Shirley, Coff and Cour; Martin Hunt and Bonnie ADN Company Company (New York) (Ne Harrour, Bartes, 1922.

Wheatley, both of Coff's Harbour, Bill 2AEY, Tareet, Alec 2AGG, Sydney; Harold 2AHA and Joyce, Mrs. Whyte, Sur., and "Fop" Whyte, Newcastle, Ken 2AG, Whyte, Newcastle, Ken 2AG, Whyte, Newcastle, Ken 2AG, Whyte, Newcastle, Coff Harbour, Harold 1921.

100 2ASW, 100 Coff's Harbour, Harold 1921.

101 2AWG, Coff's Harbour, Harold 1921. 2AWH; Ken 2AXZ, Sydney; and Asso-ciates Gordon and Eunice Gilmore, of Lismore; Les and Norma Sparke, New-castle; Norm Dash, Kempsey; Bill Mit-chell; Syd Daniels; Webb Cooper, Armidale: Harry Knight, Coff's Harbour.

There were others present whose call there were others present whose can does not appear on the official list and included 2PA, 2QV and probably others not known to me, whilst others includ-ing Ken 2APB called in for a few hours as time or work permitted.

The competitions were conducted under the supervision of a central control station and were smooth in operation Average number of entrants was eight and performances were greatly aided by the reasonable condition of the bands and the friendliness of the competitors. The results were:-

(1) The Gerry Challender Memorial Contest: 1st, Don 2ASW, 194 pts.; 2nd, Peter 2PA, 155 pts.; 3rd, Harold 2AWH, 135 pts.

(2) The 144 Mc. Hidden Tx Hunt: 1st, 2PA/2AHH (as a team); 2nd, 2AHA;

3rd, ZNX.

(3) The Fred Leader 144 Mc. Hunt;
1st, 2AFY; 2nd, 2AHH/2PA; 3rd, 2KG.

(4) The Urunga Scramble: 1st, 2ASJ,
40; 2nd, 2AWH, 39.

40; 2nd, 2s,wt, 3s, (5) Best drawing room story, the "old" "horse," 4GC; (6) Ladles' mystery voice comp., Jean Dan; (7) Ladles' quiz comp., Marie Hunt; (8) Ladles' house comp., Marie Hunt; (9) Ladles' lucky door number, Marie Hunt; (10) Gents' lucky door number, Leith ZEA.

Everybody, I'm sure, will join with me in extending congratulations to Ron 2ASJ on his popular win in the Scramble and all will agree that 40 contacts in an hour is really good going and Ron really deserved his victory.

Before closing, the Convention's thanks must be extended to Ted Hamey who, with his usual enthusiasm, brought his projector and films from Coff's Harbour to give us a glorious insight

# 1953. Results

The results of the 1953 National Field Day are published herewith and although only 17 logs were submitted the Contest was more popular than in past years, as in addition to the logs submitted at least 15 other portable stations were in operation.

The winner of the Open and Phone Sections was VK2ASW with very creditable totals of 280 and 239 points respectively. The C.W. winner was VK2ASJ and Fixed Station VK3AHL. State winners to whom Certificates will be issued include: Open-VK3ALQ, VK7SR; Phone-VK3LN, VK7FM; and C.W.—VK3YS.

OPEN SECTION Points

VKSASW				
	****			280
VK2ASJ				226
THEONE				206
	**** ****	**** **		
VK7SR				150
VK3YS				62
	****	**** **		
VK3ZM	****			23
VK2RK				6
				0
PHO	ONE !	SECTI	ON	
	314M	DECL	014	Points
VK2ASW				239
VK3LN				159
	**** 7111	2277 31	11. 1111	
		***** ***		113
VKSAID				49
VK7FM	****	****		
	****			26
VK7AL	**** ***			23
C.	W. SE	CTIO	N	Points
******				
VK2ASJ	**** ****			163
VK2ASW	**** ****	note 44		91
VK3YS				56
APOID "	4550 5940	5000 00		20
FIXED 8	COM A DOS	ON .	TI-CHEN	
FIAED	DIATI	UN S	EUT	
Annual Contract of the Contrac				Points
HHAENV				28
				Committee.
	-Fedi	tral Co	ntest	Committee.

into the growing and marketing of Flowers in Holland. To our entertainers from Bellingen we also owe our thanks, as we also thank Betty Sara (Mrs. 2QV) and Ins Alexander (Mrs. 2PA) for their lovely singing.

The people of Bellinger Shire and the township of Urunga in particular made us all feel at home and we thank Councillor Raymond and Mrs. Cooper for their kind words of welcome.

Donors of prizes, etc., are all thanked for their generosity and any who played a part in the smooth running of the Convention for the benefit of all those who had the pleasure of attending

Quite a few humorous incidents oc-curred some of which would take too long to tell, and others too numerous to mention. If you want to hear some of them, ask Crieff about the stories on of them, ask Crieff about the stories on the tape recorder, Peter 27A of his ad-ventures water ski-ing, Don 2ASW about his adventures with Yvome, Rod Pike and his bolls, Alec Dan and his motor scooter, Pedro 4PR and his motor scooter trip from Brisbane to Coff's Harbour, John Moyle about Dorrigo Mountain. All these things, as you know, make up life at its best and I. can only say to those who weren't

-Noel Hansen, 2AHH.

# altham DISPOSALSI

### 319-321 SWANSTON STREET 393 FLINDERS STREET, MELBOURNE

Address all Correspondence to Box 5234, G.P.O., Melbourne, Write for our latest Bargain Catalogue.

#### RADIO TRANSCEIVER AND INDICATOR UNIT V.H.F. Approximately 189 Me.

Type 1045. Valve line-up in Transceiver: 2-RL18. 1-VR135, 1-5V4, 1-EA50, 1-RL37, 6-EF50, 1-6SN7, 1-GL2050 (Thyrotron), 2-VR150/30 (Voltage Regulators) 1-884 (Gas Triode). This unit also contains a motor driven Selector Switch, two superbly designed Polystyrene sixposition rotary Coil Turrets, and an LF. Transformer strip ideally suitable for use with Television. Band width 10 Mc. Indicator Unit, Type 1047, Valve line-up: 7—EF50, 1—878, 1—VR54. Also contains a 3,000 type Relay 2,000 ohms, ten assorted Potentiometers, a two-bank Ceramic Wafer Switch. and an illuminated scale (5BP1 tube and shield not included). These two Units are brand new, and are packed together in their original packing cases.

PRICE £21/10/- the two.

£15/0/0 { if supplied separately. £7/10/0 9

#### TRANSMITTER-RECEIVER

Transceiver

Indicator Unit

RT34/APS13. Frequency Modulator, approx. 450 Mc. Valve line-up: 9— 8AG5, 5—6J6, 2—2D21, 1— VR105. Also contains Dynamotor, input 27v. 1.5a., out-put 285v. 60 Ma. Price £17/10/-.

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50 pF. Midget Dual £1/17/6 55 pF. Single, Junior £1/5/-18 pF. Single, J'nior £1/10/-

25 pF. Dual Junior U.H.F. .... £2/10/-35 pF. Single gang Dual Spaced .... 17/8

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80 pF. per Section, Dual Junior ... £2/10/-150 pF. per Section Dual £3/10/-Junior ....

£1/5/-

200 pF. per Section, Dual Junior .... £3/10/-Post. & Pack.: Vic., 4/-; N.S.W., S.A., Tas., 5/-; W.A., Qid., 5/5.

#### COMMAND RECEIVERS BC453 190-550 Kc. £12/10/-BC454, 3-6 Mc. £7/10/-BC455, 6-9.1 Mc. £7/10/-

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COMMAND RECEIVER. CONTROLS, Type BC450 3 Slow Motion Dials, 6 Single pole double throw Switches. 4 Miniature Jacks, 3 Volume Controls (approx. ohms). Price £1/15/-. Post. & Pack.: Vic., 6/-; N.S.W. S.A., Tas., 2/8: W.A., Old., 11/-

AEBIAL CONTROL BOX Type 442A, contains 50 pF. Western Electric Condenser, Aerial Indicator Meter 0-10 Thermo-couple, 24v. miniature Relay, and useful connecting terminals. Price 25/--Post. & Pack.: Vic., 3/8; N.S.W., S.A., Tax., 4/-; W.A., Qld., 4/L.

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Type 169, containing Klystron Tube, three Neon Stabilisers, one EF50, two half-wave Selenium Rectifiers. one 5U4 Rectifier, one CV85, Potentiometers gears, Re-sistors, high voltage Condensers and Transformer. Price 24/19/6.

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Westinghouse, input 24v. 7a output 540v. 250 Ma., Price £3/10/-Post. & Pack.: Vic., 7/3; N.S.W., S.A., Tas., 10/6; W.A., Old., 14/-,

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Post. & Pack.: Vic., 4/9; N.S.W., S.A., Tas., 6/-; W.A., Qid., 7/6.

#### TRANSMITTING TUNING UNITS by General Electric Type TU10B, 10,000 to 12,500 £2/10/-Type TU7B, 4,500 to 6,200 Kc.

Type TU6B, 3,000 to 4,500 Type TU9B, 7,700 to 10,000

CONTROLLER, TYPE 4 Aircraft Transceiver remote control. Containing a 5-bank cancelling push-button

switch, lock and non-lock; P.M.G. type Key Switch, small two-way Plug, and five small bezels and lamp holders. Price 17/6. Post & Pack: Vic., 4/6; N.S.W., S.A., Tas., 6/-; W.A., Qld., 7/8.

SELENIUM RECTIFIERS 300 volt 80 Ma. .. .... 12/6 200 volt 40 Ma. 8/6 Post. & Pack.: Vic., 3/8; N.S.W., S.A., Tas., 4/-; W.A., Qid., 4/8.

#### TRANSMITTERS Type TR3548

Containing Valves: 1 Recti-fier VU111, 1 EF50, 1 10 Cm. Magnetron Valve complete with magnet, 1 Crystal Diode Type 1N21; and 1 24v. Blow-er Motor. Brand new. Price £5/19/6.

#### HAND GENERATORS Gibson Girl Hand Crank Generators. Output: high

high voltage 250v. 100 Ma., low voltage 6-8v. 2 amp. Ideal for conversion to power suply for portable transmitter. Also suitable for conversion to Wind Battery Chargers. Price £4/10/-. Post. & Pack.: Vic., 8/-; N.S.W., S.A., Tas., 6/-; W.A., Qld., 8/6.

#### COMMAND MODULATOR UNIT. Type BC456E

Containing 1-12J5, 1-1625, -VR150/30, 3-24v, Relays, New condition, Price £5/-/-

# ASB TRANSMITTERS

Containing six Acorn type Transmitting Valves, high voltage vacuum Relays, and many other useful components. Price £3/17/6.

#### ASB RECEIVERS 800 Mc. approx.

Valve line-up: 2-955 (Acorn triodes), 8-6AC7, 1-655, 1-6H6. Also contains eight H.F. I.F. Transformers and H.F. I.F. Transformers and 0.001, 0.003 uF. mica condensers. Price £6/19/6.

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### DX NOTES BY VK7RK\*

Activity this month seems to be hit-Activity his month seems to be in-ting the low spots, reports coming in being very few and far between com-bined with my own comparative inactiv-ity making it somewhat difficult to make the column interesting. To those who did find the time to drop me a line, let me say "Many thanks," and to those who could not, "I could do with it."

One point worth considering is that by the time this reaches you we will have completed our first year of 21 Mc. operation and it is interesting to recall how the band has behaved. In all it has been everything that could be expected of it, taking into account current conditions, and gives promise of really first class working at a later date. At appropriate times, most continents have been worked with ease, South America being the stumbling block and the only QSO I have a record of is VK2AWU to CE. Others have no doubt a South American QSO under their belt but not

Those of you who heard and worked Those or you who heard and worked VQHEJF around last September will have no doubt as to the African contacts available, while the pile of Europeans during evenings in October, November, and December give the pointer for this continent. At the moment we are back where we started with some fine ZL contacts and occasional W and Central Americans. However, to summarise the bands for the

month-

3.5 Mc. came to life with a bang during the W/VE Contest, which bears out the old, old contention that with sufficient activity conditions sufficient activity conditions are not nearly as bad as they seem. 3AHH was indicative of quite a few of the gang in working all W districts. Heard with a consistently strong signal, but of course not interested in working VKs, was

KP4KD 7 Me, bore the brunt of the W/VE working being consistently good from 0630z to 1600z. Europeans are still good by losing a few hours of the morning sleep. Calls heard here include G. F. ON, HE9, YU, EAZDM, EA7DW, CTIEL. Don Grantley heard most of his Euro-Don Grantley heard most of mis Europeans over the long path and lists IIDSU, YUZAKL, CTIDJ, GWSAKB, UB5KAB, EA1BC, MB9CA, OEISHL, UA1KAC, UA0BKY, FASCR and UAIKAC, UAGBKY, FASCR and FK8BD. On phone everyone seems to have worked the Ws and to these 4XJ adds FUSAC and 3AHH adds HC1FG and LU3SAL.

14 Mc. at the moment does not bear predicting as it changes so rapidly. An example of this was given here on two example of this was given here on two successive afternoons. The first one, between 0600z and 0615z all continents except Europe were at good strength, prefixes being ZS, SU, W, VE, KLT, CO, KZ5, HR, CE, JA, and FK8. The following afternoon at exactly the same time the only DX audible were Europeans and they were there in abundance, so how would the prediction service ex-plain that away?

9YY comes up with a very interesting letter and seems to have kept himself extremely busy during the month work-ing DLIDX, OEICD, F8BS, SM7AVA, \*5 Galvin Street, Launceston, Tasmania.

OE13HL, OH2NB, OZSJB, DUICV KG6ABI, VU2AR, ZS1EB, ZS5OH ZS2CR, ZS5KU, CR7BC, VK1RR KG6ABI, VU2AR, ZS1EB, ZS5OH, ZS2CR, ZS5KU, CR7BC, VK1RR, KZ5GH, CE4MX and a host of Ws. You don't think that would keep him busy for the month? Well let me tell you guys, Alan managed to squeeze in enough time also to get himself an XYL, so if that's not being busy, I don't know it. Anyway, congrats Alan and maybe this time next year you will be able to check on DX during the wee small

2AOU comments that as we are just about at the bottom of the hill in sunspot activity, things can't get much worse, but Hans seems to be getting words, but hans seems to be getting along with quite a few stations, working KG6AEJ, DLILH, KA3RR, VS6CL, VK9RC, SM5WL, SM5ACC, IISM all on phone, and heard (on phone). HR1BG, VS7RA, VUZNB, CN8EY, on phoses, HRIBG, VSTRA, VUZING, VSIES, VS6CG, CTICP, KW6BI, VI.7ZG, HRIKS, KX6BB, ZM6AA, and KTIWX. Hans summarises the band by saying the Ws from 0500-0700z, Central Europe and down to North Africa 0700-0830z, while 1000-1130z is still best for Northern Europe.

3AHH lists the usual run on c.w. plus KW6BI and VESTC, and on phone HR1BG, F08AI and XZ2SS. MF2AE provided the only new one for 7RK, the new ones come very slow-Others for the month were CO2OE who puts in perhaps the strong-CU20c who puts in perhaps the strong-est signal from Central America, and FK8AE, VS6CG, CR9AF, FO8AI, KJ8AX, KM6BG, ZS2BC, HRIAT, KZ5FI, ZS2HI, YU3BC, SUIHS, OH7OL, OH5NK, SM5AHW, PA6SP. On phone, ZM6AA and VSIES.

21 Mc. has been commented on up the page a little and if you have patience enough to listen more often, GNOS will reward you. 3AHH lists on c.w., apart from ZLa, VR2CG and VSIFE; on phone, KH6YL and VSSBF. TRK heard on phone KH6AR, T12EV. HP3FL—the latter two at 0100z. HP3FL runs 500w. to a vee beam pointed in our direction. 2AWU beat me to the contact, so Walter is evidently still watching 21 Mc. Apart from some very strong ZL signals on c.w., an occasional W. usually W6 or W7, can be heard around 0100z.

28 Mc. seems still to have had the

28 Mc. seems still to have had the biscuit, but, nothing daumted, up pose \$XJ with KHEAGY, KHESP, KHEAGN, KHEIL and WSULLI/MM. be trickling through, to \$AAHH: 5A37Z, MISLK; to \$YYY: DUICY, FOSAB; to TREK SUIGG, ZSSYW, 4UAS, YUSAT, DUIEC, YJIAB, VQHAPP, ZORK, CHSNK, the last three on 21 Mc. 7GM received a \$CSL iron WIVHER for a \$SO in June. '48, post-marked the same time. At time there was no 7GM licensed and Gordon comments on the efficiency and tortion comments on the efficiency of the QSL Bureau waiting for a call to be taken out and then sending him QSLs back for a few years.

Two QTHs to mind are: MP2AE—Box 5, Trieste; KJ6AX—A.P.O. 105, c/o. P.M., San Fransciso.

Last month's note re Cocos Island finished up a little haywire as to call sign as I discovered just one day after posting. The new call on Cocos is VK1BJ, Jeff, ex-VK6JC, operates mostly phone, when I heard him around 14180 Kc. Time at the moment very limited and hopes to spend most of his time on 21 Mc. when he gets that perk-ing which he expects to be about June. Cocos Island time is 3½ hours behind

#### AMATEUR CALL SIGNS FOR MONTH OF MARCH, 1953

ADDITIONS VK- New South Wales 2CD-Chapman, R. O., 67 Arabella St., Longue-

ville.

2ZK-Taylor, A. P. W., 13 Maxwell Rd, Page2AiC-Glocker, H. W., 68 Belemba Ave,
2AiC-Blocker, R. R., 1 Hampden St, Dubb,
2AGD-Barown, B. R., 5 Bank St, Meedowbank,
2AGD-Brown, B. K., 5 Bank St, Meedowbank,
2AGD-Crickton, J. T., Flat 3, Pailip Court,
2B Horne St, Fort Kembla.

3M Force St., Fort Kernbå.

3M-Gabel, R. Vietera.

3M-Gabel, R. Vietera.

3M-Gabel, R. Vietera.

3M-Gabel, R. V. Terner Root, Persona.

3M-Catalyses, R. V. Terner Root, Upway.

3M-Catalyses, R. V. Terner Root, Upway.

3M-Catalyses, R. V. Terner Root, Upway.

3M-Catalyses, R. V. Serner Root, Roots, Root,

3M-Catalyses, R. Songer M. Moorabbin.

3M-Catalyses, R. Songer

Western Australia 6CC—Chapman, F. W., Lot 420, Downey Drive, Manning Park. TAX-Hubbard, A. 2 Athleen Ave., Lenah Val-ley, Hobart.

#### ALTERATIONS

VK.— New South Wales
2PH—40 Delecta Avenue, Beauty Point, Mosman.
2PH—21 Coolawin Road, Northbridge.
2MZ—"Mount Haven," Essex Street, Lawson.
2PI-31 Hackett Gardens, Turner, Canberra.
2ADB—Chalet "2", Repatriation Sanstorium,
Turnsmura. 2ADB—Chalet L. Information 2Arguet Lavingron. 2AFG—48 Oxford Street, Bondi Junction 2ALN—The Rectory, Cumnock.

SALM—The Rectory, Cummonde.

SALM—The Rectory, Cummonde.

Signature of Commonder.

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4BW-Lloyd Street, Marcela. 4TS-Station: 22 Wylle Street, Toowoomba; Forcal Isa Mines State School, Mt. Isa. 4UX-Oak Street, Yungaburra.

Sept. Australia
SBP—Thomas Street, Murray Bridge.
SDE—Station Master and Postmaster, Copley.
SLL—137 Walkerville Terrace, Walkerville.
SVL—But 10, R.A.A.F. Station, Darwin. Western Australia

EEB-203 The Strand, Bedford Park,
67A-C/o, A.W.A. Aviation Service, Derby,
68E-C/o, D.C.A., Geraldton,
68T-School House, Nungarin,
60F-57 James Street, East Cannington.

Tasmania

1JD-29 Brent Street, Glenorchy.

7KB-17 Linton Street, Upper Burnie.

DELETIONS

New Seath Wales: VK: 235 (now operating under VEXM-VR) and operating under VEXM-PQ). AQX. 2ASQ. 2ASV. Victoria: VK: 3DY, 3AQX. 2ASQ. 2ASV. Queensland: VK: 3DY, 3AQX operating under VEXZ-XI.

Terriseries: VK: 3DY, 3ADX operating under VK: 3DY, 3DX operating under VK: 3DX

### FIFTY MEGACYCLES AND ABOVE

Compiled by J. K. RIDGWAY, VK3CR.

144 Mc.

VICTORIAN DIV. V.H.F. GROUP

Once again excellent weather pre-On 2 mx over 20 stations were active Victoria as well as a number in N.S.W. and northern Tasmania. Country stations 3EQ, 3UI and 3ZL were set up with portable gear on Tower Hill, Mt. Major and M. Buninyong respectively, Metropolitan stations working portable were 310 at Mt. Bullengaroot, NPW at Ringwood, 3201 at Mt. Macedon, 345A engaged, and the station of the stati Major and Mt. Buninyong respectively. came on

Have you sent in your log for the contest? Please note that logs should be posted to reach the Victorian Div-ision rooms before 7th May. Log requirements and contest rules appeared in the Dec., '52, issue of "A.R."

At the March V.h.f. Group meeting

At the March V.h.f. Group meeting the office-bearers for the ensuing year were elected and are: Chairman, Herb Stevens, 3JO; Vice-Chairman, Fred Bail, 3YS; Secretary, Jim Gale, 3AJG; Asst. Secretary, Bob Stevens, 3OJ; Publicity Officer, Jim Bail, 3ABA.

The next V.h.f. Group meeting is on The next V.h.f. Group meeting is on 20th May at 8 p.m. in the Institute Rooms and Mr. Andy Morrison of the P.M.G. Research Department will give a lecture on the 167 Mc. tests across Bass Strait. He will describe the tx, recording equipment and aerials being used. It is anticipated that the prizes will be presented to the winners of the v.h.f. field day contest. All are invited to attend the meeting.

Country v.h.f. activity is improving. In that outpost of Victorian civilisation, Mildura, in the Far North West Zone, 3GZ and others are getting down on to

On 288 Mc. the following are active and looking for contacts: 3AFJ, 3ALK and 3AAF in the Ashburton-Burwood 3GQ at Essendon, and also 3PO in Ballarat. Some proposed activity in Geelong is reported. 3PO calls Mel-bourne every evening at 2000 hours for five minutes then listens for five minutes through until 2030 hours. Tx's at present are p.p. 7193 mod. osc. Super regens serve mainly for receiving. 3AAF has a modified AR301. The aerials are 16 element vertical arrays and 5 element horizontal yagis. A half wave length on this band is a little over 1 ft. 7 inches.

#### SOUTH AUSTRALIA

Tom 5TL has been spending holidays in the city and gathering gear and in-formation about 144 Mc. Came out to my QTH and set a grid dip osc. on the band, so the Murray Valley should be set up now for further building. Has also a 6J6 tunable osc. with 7 Mc. i.f. channel ready for testing. The Valley, according to reports, has been having fun with transceivers and super regen rx's. Harry 5KW and Murray making use of the 2 mx band also so that there should be a really good possibility for an interesting lot of work on the v.h. frequencies. Hughie 5BC still active with a 4 element rotary on

PREDICTION CHART FOR MAY, 1953



for extreme climatic variations U.C.C. "METALPACK"

It's the Super-Tropical capacitor made to withinked extreme temperature variations from —0°C. to \_10°C. Check these big leahures: a Solid but and paper assambly, non-unit a Solid but and paper assambly, non-commence as Full hermetic rubber sealing for the performance a Full hermetic rubber sealing for maximum confect to element, brought through river and solidered.

Conforms to Inter-Services Specification RCS131.



6 mx, while Fred 5MA sticks to a folded dipole.

Locally, the activity wouldn't bear comment. Ross 5FL using 6 and 2 mx in the usual hook-up with Pete 5FM.

but I think that the regular v.h.f.-ers must be hauling off for the winter months when according to reports we are due for some sporadic E and per-haps some DX! The weather reports and maps show possibilities for a long distance 144 Mc. contact from north to south, but so far we have few stations north of Adelaide to take advantage of north of Adelaide to take advantage or the unusual cold fronts which have been occurring lately. Reg 5QR is always on the watch so what about it, Laura, Clare and Pt. Pirie—maybe also Pt. Augusta.

(Continued on Page 10)

#### MULTIBAND ANTENNA (Continued from Page 3) THEORETICAL CONSIDERATIONS

Calculations of radiation patterns of complicated antenna systems can only approximately represent the real circumstances as certain assumptions must always be made. However, careful computations usually lead to results which are sufficiently accurate for pracwhich are sumciently accurate titical applications. It is helpful to regard reflections from the ground as being represented by a so-called image antenna below the earth's surface. Furthermore, all possible reflections from surrounding buildings, etc., must be would make a few would make a be neglected as they would make a calculation impossible

There are several methods for the computation of radiation patterns. The best general approach is based upon Maxwell's equations and uses so-called radiation vectors and antenna moments for the final evaluation. A discussion of this approach would be beyond the scope of this article, but all interested may peruse the excellent book given as reference. Another satisfactory method is the use of ordinary graphical manipulation involving simple vector puting complicated antennae is intended to be the subject of another article at a later date.

The other interesting property of any antenna is its gain with respect to the radiation of a half-wave dipole, say. This was theoretically calculated for the main lobes in the 5 degree plane with 20 metre operation. The gain was found to be 5.6 db in the in-phase connection, and 6.4 db in the out-of-phase connec-

The antenna performs very well for 20 and 40 metre DX as well as general communication on 40 and 80 metres, so that it can be recommended to anyone who is interested in those branches of Ham Radio. The description has shown that its construction is extremely simple. DX results at the writer's sta-tion improved considerably since erecting it, and the antenna was found at many occasions to perform at least as well as "beams."

well as "beams."

In conclusion, the writer wishes to take this opportunity to thank the following stations for very helpful benefity autenna tests: VKs reports in lengthy antenna tests: VKs 2APL, 3OL, 3WQ, 3AAF, 3AVW, 7DZ; Ws 1EFN, 7PYV, 0BQP; and DL1EE.

REFERENCE S. A. Schelkunoff and H. T. Friis, "Antennas: Theory and Practics" (Chapter 12).

# RADIOTRON

# VALVE DATA BOOK



Extensively revised and greatly expanded this new second edition of the well known Radiotron Valve Data Book now contains nearly 500 pages of technical data, curves and graphs on Radietron valves in current use in Australia.

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#### CONVENTION DINNER

Easter Saturday evening saw a gath ering at the Hotel Federal where Federal Council entertained the Delegates as well as Departmental heads of the as well as Departmental heads of the Post-master General's Department and the Services. The Federal President, Mr. G. Glover, presided and was most ably assisted by the Federal Services, Mr. G. M. Hull, VK3ZS, who acted as st-master.

Mr. John Martin proposed the toast Wireless Institute of Australia to the and in doing so said that in the past he had been to many such functions, but always in an official capacity. Now, however, he was extremely pleased to be able to attend as an ordinary person. He had for more years than he cared to remember, been associated with Amateurs and paid tribute to those who gave such valuable services in the course of World Wars one and two.

Mr. Geo Glover, VK3GG, in reply, expressed the view that the Institute was growing every day, and they today were engaged in consolidating the position of the Institute and the Amateur

in the community.
"The Guests" was ably proposed by
Mr. W. G. R. Gronow, VK3WG, who,
in the course of his remarks, welcomed visitors to the gathering. He was pleased to see old friends of the Department as well as visitors from the Broadcast Control Board and the Services.

Mr. J. Dobbin responded saying how pleased he was to be present, and wished to apologise for the absence of the Director General who was unable to be present, but nevertheless had expressed his hopes for the success of

the Convention.
Mr. Dobbin, looking round, said he thought that there were some "hard boiled" types attending the convention, bouled types attending the convention, but he was sure that much good would come of it. The P.O. was always anxious to help as far as they were able, but in these days it was getting harder and harder to make wavelength assignments as the demand had far exceeded the spectrum space. However, Amateurs were regarded as a service and as such would always receive full consideration of any requests put for-ward. He hoped he would be able to attend more of these functions.
Lieutenant Colonel Roseblade,

senting the Director of Signals, said he enjoyed being able to attend and welcomed the opportunity to support the remarks of Mr. Dobbin. He had been a Ham for 20 years and in that time he had met many Amateurs in the Services, where they had always proved

invaluable.

invaluable.

Mr. Cedric Ewin, VK3AGC, Federal
Treasurer, proposed the toast to the
"Delegates" and in a few well chosen
words welcomed the Delegates and
hoped that their stay would be a happy The reply to this toast was in the

capable hands of Mr. J. B. Corbin, VK2YC, who, in a brief, humorous and straight to the point reply, thanked everyone concerned for such a great time. The hospitality of the VK3 Div-

ERRATUM, VK-ZL CONTEST RESULT In the Aus. C.W. Section, the call sign "VK3AAH" should read "VK3AHH." ision seemed to be something unique and proved without doubt the Amateur claim that "Amateurs were friends

irrespective of colour, class or creed."

Mr. R. Hugo, VK6KW, proposed the
toast "Headquarters Division." saying be was pleased to have the responsibility of this toast. Headquarters Division looked after them during their stay, not only this, they had provided the Insti-tute with Federal Executive. He thought that they in Western Australia could

not do better.

The Victorian President, Mr. Gordon Dennis, VK3TF, replied and thanked the proposer for the nice remarks. The Division derived great pleasure in being able to entertain the delegates, and he thought the Convention worth while. The toasts were followed with a

simple ceremony—that of the official presentation of the Remembrance Day Trophy to the winning Division. Mr. F. Punch, of the P.M.G. Central Administration, made the presentation, saying he felt deeply bonoured to be chosen to make this presentation. The FIFTY Mc. AND ABOVE from Page 8

From the south east comes the fol-From the south east comes the fol-lowing news from Col Ferguson. There are five stations operating on 2 mx, Stuart 5MS, John 5JA, Claude 5CH, Tom 5TW and Col 5CJ. 5TW and 5MS are using converted LF.F. gear as mod. osc, and super regen rx and cover the terrain in fine style.

5CH and 5JA use converted AR301 rx's and a modified LF.F. tx and home built xtal controlled tx respectively with snare bits and paces of LF.F. gear for stand-by

Col 5CJ has an SCR522 modified to work on 2 mx with the usual I.F.F. spare so that there should be no break down in communications in that spot of S.A. The antennae vary from "J" types to 4 element beams with a mixture of vertical and horizontal polarisa-

tion for good measure There is a very good article on v.h.f. converter design in February "QST" by two engineers of Television Industries Inc. U.S.A., and I am spending some well applied time to gleaning excellent tips from it. I recommend its reprint to the Editor of "A.R"—5XU.



The above display is portion arranged by the Western The above display is portion arranged by the Western Australian Division in the window of a large store in Hay Street. Percent of the state of the state of the state of the state of the property of the state of the state of the state of the state of the the Amateur generally. The WA. Division are deeply indebted to Foy & Gibson who made the window space available and sincerely thank the staff responsible for the excellent display.

sentiment behind the trophy was of the highest-that of commemorating the memory of those Amateurs who gave their lives on active service. He had much pleasure in presenting the trophy to Mr. Ron Hugo representing the Western Australian Division.

Mr. Hugo said he had much pleasure in accepting the trophy on behalf of his Division, which they had won after much effort. He thought, as Mr. Punch expressed it, the thought behind the trophy inspired the effort to win, and he hoped that his successor would be very proud to accept it next year.

#### SUBSCRIPTIONS · Please pay your Subscriptions

PROMPTLY when due. Failure to de so may result in the loss of valuable issues of "Amateur Radie" High costs of production make it necessary to limit the number of extra copies printed each month. 

### IT DID HAPPEN IN ENGLAND

wo and a half years ago the R.S.G.B offered to set up a communication netomerea to set up a communication network to meet any national disaster on land, at sea, or in the air. That offer was declined. Why? Because the GFO had advised the appropriate Ministry that it was quite capable of handling any emergency without the help of Radio Amateurs.

It is worth recording the reply the Society received at that time from the Ministry of Transport. It read:--

"The Minister much appreciates the interest shown by your Council and your members in the arrangements made for receiving distress messages from vessels at sea and is grateful for their offer of co-operation. After discussion with the Postmaster-General, however, is satisfied that the normal listening watch maintained by the stations of the mobile service should be adequate in all ordinary cases to ensure that any distress message is picked up and acted on. He feels that the occasions on which it would be necessary to call on the services of Amateurs, or other members of the public would be so exceptional and, therefore, so few and far between that it would be more satisfactory not to lay down any hard and fast procedure, but to make the necessary arrangements in the light of the requirements of each individual case."

During the last few hours of January. 1953, a disaster of immense magnitude struck the coasts of the British Isles. Office telephones, Covernment wireless stations and the utility services were put out of action for days on end. Radio Amateurs in these stricken areas ignoring the terms of their licence, but feeling sure that Public Opinion would support them, immediately placed their stations and their experience at the disposal of the authorities. In Lincolnshire, for example, when Humber radio station was put out of action by the floods, local Amateurs maintained a continuous watch on the shipping frequencies. How well they did their job no one will ever know unless an enterprising journalist has been able to drag out a story. Four times in a few hours Grimsby and Hull Radio Amateurs intercepted distress calls from ships at intercepted distress caus from ships at sea Yet, only a few months ago they, and we, were told "that the Postmaster-General is satisfied that the normal listening watch maintained by the stations of the mobile service should be adequate in all ordinary cases to ensure that any distress message is picked up and acted upon." What, may we ask is

an ordinary case? To the average British Amateur it seems incomprehensible that the Post of its rights-as to spurn genuine offers

of help. These words were penned at the height of the disaster and long before 

the Council of the Society had had a further opportunity to review the situaduty if we omitted to place on record once again, our serious concern that no provision has yet been made by the Government to establish a National Emergency Amateur Radio Communications Service

Is there no one in the present Government sufficiently powerful to say that the co-operation offered by the Hadio Amateurs of the United Kingdom MUST BE ACCEPTED

The above extract from the R.S.G.B. Bulletin should inspire every able bodied Ham to have emergency equipment available for any crisis so that the authorities in Australia could never point the finger and say that Amateurs were not prepared.—Federal Exacutive 1

#### IT COULD HAPPEN HERE!

#### ACCURATE FREQUENCY TRANSMISSIONS FROM VK2WI

The next Accurate Frequency Transmission will take place on Thursday evening, 21st May, 1953, on the 3.5 Mc, band, Details of the operating procedure and times of operation will be found on page 6 of the February, 1953, issue of this magazine.

# RECORDING and REPRODUCING NEEDLES

RECORDING SAPPHIRES. "Seteo" Cutting Stylii manufactored by skilled Craftsmen are of finest gem structure ground to exact specifications and polished to the very finest degree of smoothness and brilliancy. Hardness is beyond human test or knowledge. Correct radius ensures "Seteo" Sapphire Stylia to cut silent shiny grooves for many hours. They are specially designed to ensure a proper thread throw. Quality and unformity is guaranteed and they can be re-sharpened a number of times. Available in either Standard or Microgroove Types. Price is £1/4/- each, posted.

REPRODUCING NEEDLES. "Radiotone" Red-Shank Playback Needles are the finest manufactured, ensuring high fidelity, wide range reproduction and low record wear. Each needle is individually shadowgraphed and inspected under a Microgocope to ensure that its meetle is individually shadowgraphed and inspected under a Microgocope to ensure that its vinylite Transcriptions, or ordinary Gramophone Records. Price 1/6 per 100, posted. Successful Recording and Reproduction is despendent upon the use of the correct Span-phies Cutting Styli and Reproduction is despendent upon the use of the correct Span-phies Cutting Styli and Reproduction is despendent upon the use of the correct Span-phies Cutting Styli and Reproduction is despendent upon the use of the correct Span-phies Cutting Styli and Reproduction is despendent upon the use of the correct Span-phies Cutting Styli and Reproduction is despendent upon the use of the correct Span-phies Cutting Styli and Reproduction is despendent upon the use of the correct Span-phies Cutting Styli and Reproduction is despendent upon the use of the correct Span-phies Cutting Styli and Reproduction is despendent upon the use of the correct Span-phies Cutting Styli and Reproduction is despendent upon the use of the correct Span-phies Cutting Styli and Reproduction is despendent upon the use of the correct Span-phies Cutting Styli and Reproduction is despendent upon the use of the correct Span-phies Cutting Styli and Reproduction is de

Amateur Radio, May, 1953 Page 11



# MARINE TYPE MRT12 TRANSCEIVER

QLD : Chandlers Pty. Ltd.

N.S.W.: John Martin Pty. Ltd., University Graham Instruments Pty. Ltd.

Designed for Small Ship operation. May also be used for Amateur Bushfire Work, etc Very reasonably priced. Full details and descriptive leaflet from Firms handling Bright Star Crystals or direct.

T.C.C. 1.5 uP. Condensers, 4,000 volt DC working, £4 each. Limited number Taylor Tubes: TZ20s, £2/10/- each; TB35s, £6/10/- each.

Transmitters attered for Bush Fire and Fishing Boat Work. CRYSTALS, as illustrated, 40 or 80 mx, AT or BT cut. Accuracy 0.02% of your specified frequency, £2/12/6 each



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Page 12 Amateur Radio, May, 1953

# FEDERAL, QSL, and DIVISIONAL NOTES



#### FEDERAL

EASTER FEDERAL CONVENTION The Federal Convention was held over the Easter holidays at which the following mem-bers of the Federal Council attended —

"or of the Federal Council attended —
George Glover, YEAG, Federal Freeddant,
George Glover, YEAG, Federal Freeddant,
Karry Kinner, YEAG, Federal Berry
Kinner, Yeag, Fede

Bob UMAY, VAVOM, Tammanan Joregause Under the competent chairmanship of the Federal President, George Glover, the discussion of the agends got away to a good start sion of the agends got away to a good start minutes and this year's reports had been dispursed with, and the Federal Folicy Book had been reviewed and all redundant matter removed from therein.

been reviewed and all redundant matter by the property of the party of

The Federal Dinner was hald at the Federal Hotel, Collins Street, Melbourne, on Saturday nuch, 4th April, where a congenial evening was had by all present. In addition to members and ex-officio members of the Federal Council, the following notoriaties were in attendance:—

he following notoristies were in attendance:

LLCO, R. K. Romelhade, representing the

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graphs, PM G.

Bluers, apoint M.B., Postcarder General,
Men. Va. Karil Highers Minister for UnJohn W. B. Karil Highers Minister for UnJohn W. B. Karil Highers Minister for UnJohn Driver of Telecommunications and
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Of Signata, Department of the Army, from the
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General Department of the Army, from the
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cating Central Board
Although the last mentioned gentlemen were
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to attend our function, if is a Tipude
see that they were duly represented and expressed their personal regrets in writing. It
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The Institute is sorry that on this occasion they are unable to attend, and hopes that on the next occasion they will be able to attend

For the first time at a Federal Convention, it was possible to keep the Sunday attemnon free from Convention business. Advantage will apply the Sunday attemnon free from Convention business. Advantage will apply the convention to be a delightful result from the many business. Advantage will be a delightful result from the many business of the convention of the conventio

MEETING WITH THE DIRECTOR CENTRAL MERTING WITE THE DEBLICTOR-QUINEAL, Members of the Federal Executives had the Members of the Pederal Executive had the set to the Amakeur movement in Australia with May, Chippshedia, Director-General, Posts and during April, arising from which the Wi-A is happy in amounce that the Department had shappy in amounce that the Department had with a proposed and the Pederal Connecil, with resolutions of the Federal Connecil, with resolutions of the Federal Connecil, with the Wi-A is a second to the Pederal Connecil, with the Wi-A is a second to the Pederal Connecil, with the Wi-A is a second to the Connecil Pederal Connecil, with the Wi-A is a second to the Pederal Connecil, with the Wi-A is a second to the Pederal Connecil with the Wi-A is a second to the Pederal Connecil William Connecil Pederal Connecil Pederal Connecil William Connecil Pederal Pederal Connecil Pederal Connecil Pederal Pederal Pederal Pederal Pederal Pederal Peder

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-Federal Executive.

#### FEDERAL QSL BUREAU RAY JONES, VESRJ. MANAGER

Following are the current Divisional QEL Bureaux Managers and addresses.-Federal: R. E. Jones, VKIRJ, 23 Landale St., Box Hill, E.11, Vic.

N B W : J. B. Corbin, VKEYC, 78 Maloney St. Eastlake, Sydney tinwards and Outwards) Vic., Graham Roper, VK3ZB, 26 Lucas St., South Caulfield, Vic. (Inwards). Frank O'Dwyer, VKBOF, 180 Thomas St., Hampton, S.7, Vic. (Outwards).

Q16: Jack Files, VK4JF, Vanda St., Buranda, South Brisbane Unwards and Outwards). South Aus. Geo Luxon, VKSRX, S Brook St., West Milcham. South Aus. (Inwards and

Western Ass.: Jim Rumbis, VKSRU, Box F318, Perth, West. Aus. (Inwards and Outwards). Tasmania: Inwards—T. Allen, 8 Thirza Street, New Town; Outwards—Ray Calvert, 216 Park Street, New Town.

PAIX SUPER, NEW SOWN.

W.A. Winchester, Meanager of the International Short Wave Leagus Correspondence
Bureau, with address as 4 Woodgate Rd., Eastbourne, Sustex, England, writes inviting readers of "A.R." who would like a radio pen
friend to communicate with him. He underfriend to communicate with him. He underers of "A.R." who would like a radio pen friend to continuinciate with him. He under-takes to place applicants in touch with a pen friend in England or any other country, so long as their main interest is radio. Appli-cards should state age, max (XYL) or YL), whether a transmitting Ampieur or a listener He defires inclusion of an L.R.C. for reply It is understood that QSLs from ZCZMAC will not be recognised as he was not properly

vision says that ACSXA is active on 14 Me on Bhutan, but has not yet been heard To Bhutan, but has not yet been haard in OSP sources indicate that ZCRAA is due to start up from Christmas Island about the east of April. RVAAA states that CESAA is due to com-mence operations from Easter Island about the end of March.

#### NEW SOUTH WALES

The March residue of the New House State of t

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HUNTER BRANCE

VICTORIA

Still waiting for somebody to send me news f what is going on round the bands. Maybe ome awi, will help out-"perlesse" !!! HIDDEN TRANSMITTER HUNTS

attDekn TRANSATTER HUNTS
A most interesting and enhypable after
was apent by these who participated in
W.A. Victorian Division's Ridden TransaHunt on Sundsy, 22nd March. 25 competi
neclading many associate and student mencleading many associate and student mencleading many associates and student mento locate the UK was Bob Hildebrand.
Moorabbin. Second and third being Len
and Don 3ALQ, respectively. Mildebrand's
was 64 minutes.



require, get them from Gerard & Goodman's, where you will find enthusiasm for Radio matched only by helpful and good service.

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Amateur Radio, May, 1953 Page 14

The tr. s. Type 3 ME. II., rusning enerosimately 30 works, looted should a finite personal content of the conte

where the tx was;.

The next Hunt organized will be held on Sunday, 10th May. The same place of assembly and the same time of starting, 2 p.m. Please note the change of frequency to 1825 Ke.

Col 3FO and his willing helpers are to be thanked for their work in organizing the event.

CENTRAL WESTERN ZONE CENTRAL WESTERN ZONE
Congratulations to the Lubsek lads for their
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se past when you read this, but hope will be mething to remember. The remember will be writing a sirry thin time of it with some of sew worst conditions for years, however the sew worst conditions for years, however the send seems to have picked up and have burnt one midnight oil up this way to work LA, H, DL, G, etc. M, DL, C, etc.

A surprise visit to Byron 3TA found him iseply engrossed with a c.r.o. What about a lik on the uses of it at the next Convention

And the second with the Hypers 27th found his like for the use of 11 st the next Convention.

\*\*EASTERN 2008\*\*

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FAR NORTH WESTERN ZONE

very busy building gear. Chas has a mona, on the band and Isa has converted an LFF unit which is operating although to date be has been unable to make contact with Chas in Mildura. Max 3GZ is getting some juice into a four element 14 Me. beam and has been

DEFICING ANATURE RADIO CUE
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SOUTH AUSTRALIA

procedure of a successful tender night, as was held in South Australia.

The new Students Claus claried off with an attendance of 14 budding Hann-to-ho. They attendance of 14 budding Hann-to-ho. They Arthur Sheard by the Membership Organism. William Sheard by the Membership Organism. William Sheard by the Membership Organism. As the Section of the S

Mac C systems and Mr. Jan Peris.

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# Low Drift Crystals

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# **BANDS**

ACCURACY 0.02% OF STATED FREQUENCY

3.5 Mc. and 7 Mc. Unmounted ... £2 0

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Spot Frequency Crystals Prices on Application.

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# MAXWELL HOWDEN

15 CLAREMONT CRES., CANTERBURY, E.7, VICTORIA

Associate member Lee Paitridge, who is a member of the Legacy group for the Coronation, was presented with a handsome diary by the President at the last meeting. In whiching Lea a good trip, "Passy" reminded him that the gift was in fact a boomering, and be less as gift was in fact a boomerang, and he was ex-pected to make voluminous notes of the places and people he would see on his trip abroad, and at a future date he was booked for a talk at a monthly meeting.

#### SOUTH EAST AREAS

TOO THE LAST AREAS
TOO STY has been fairly quick, but is still being a seried of the property of the still being a seried of the property of the still sage his good deads at a creater. In this series were seried of the still sage his good deads at a creater in the still sage his series of the still sage his series of the still sage and the still sage an

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#### UPPER MURBAY ABEAS

UPPER MURRAY AREAS

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spons and chuta-these dara plutocitatis. SEW will having difficulty in adjusting his SEW will having difficulty in adjusting his the magazine; thinking of writing to A.R.R.L. for a job on the technical staff row. Nice to the season of season

Congratulations are extended to Wolgang Wutke, who has gone the way of all fissh by taking unto himself a wife. Read, mark and digest the words of the President in the April issue old son, start off by being firm and you will end up like all the rest of us. Dishes before DX.

before DX.

The Piris gang have formed themselves a club and meetings will be held along the Bless internation of the property of the property

Nothing from the West Coast area, probably and ham't got over the shock of addressing his last letter as Dear Sir, please don't do that hing sgain, the little man's ego is always when the house of the clouds.

the cistude.

And one dear Editor, I am a poor sam: I cannot and you the tornatoes or the almond or the variety of what not a grown by the usual scribe, but I do send felicitations and congrainations to all of you who produce this magnitude of the control of th

#### WESTERN AUSTRALIA

During the part month or two the 80 metre band seems to have been regularly used by many local Hams, and the possibilities are being explored by several more. The older members who used this short(?) waveband thirty years ago with gear not comparable with that of the present day did good work.

with that of the present day and good work.
Some private tests with the transmission of 6WI Sunday morning news on 80 mx, as well as 40, have demonstrated that if will be essential to utilize both frequencies to cover the area responsible for the 80 mx, and his returnsmission (being 20 miles from 6WI) has had to be done via a 2 metre link from 6WI) has had to

De done vis a 2 metre ins from SRW. The window show festuring the R.D. Trophy proved an outstanding success, and with the sastistance of a little Hars gazr, not to over-basististic of a little Hars gazr, but on over-basististic properties of the sastistic properties of the sastistic properties of the sastistic properties of the display, the Institute received a good boost. The show was a credit to the window dresser.

The show was a credit to the window dresser.

At a recent general meeting, 8RU produced a pertable 80 mx rig made from a Command to and rx. With modifications to the tx, the packing of a modulator in the wiring compartment of the Command until frame holder, and a hotting up of the rx, it produced an excellent piece of gear.

piece of gear.

R.c.l. on a rx is a common occurrence, but gramo interference is a new one reported by GRT. The writer knew of a talkie equipment that produced broadcast music. In most instance of this nature the Sault is not confined to the radio equipment

With the start of winter rains, there is a falling off of Amateur activity by some country Hams. 8BS has had to forsake the microphons for the plough, but Easter allowed a visit to the city with a call in to see 6BO and 6AG. the city with a call in to see 800 and 640.
VKG can muster 15 stations with 2 mx equipments in the metropolitan area with two active country stations. The city stations are all it is ideal arrangement for local contacts. This knees clear channels on the 40 mx band. 680 is the most active in tests with the country stations of 650 W and 670, each about 160 miles

Our Patron, SGH, has returned from the East (the home of the so-called wise men), and resumed institute news from SWI on Easter Sunday, (SWI being the "locum tenens.") All quiet on the Cocos front—the threat by VKIHM to come on 2 mx has so far not eventuated. \_...\_

#### TASMANIA

The first meeting in the new club room was held on Wednesday, let April, with about 20 members present. The new room looked very bright and shiny after the effects of 50M and 7FJ. What's it worth not tell the XYI how sood you are at cleaning windows Ted? After THE Wards II worth not to till the ACL how good yet are at cleaning windows Tolf After good yet are at cleaning windows Tolf After the ACL how the ACL

At the first meeting of the new Council, the following office-bearers were elected for the coming year. President: L. W. Edwards, T.E. Secretary; F. J. Evans, TFJ; Treasurer: R. Calvert, TRT; Vice-Presidents: R. O'May, 10M, and R. Pulton, 7AP.

and R. Fullon, VAF.

Des TICL, patting out a very nice signal on the last couple of months with 30 works to all the last couple of months with 30 works to all the last couple of months with 30 works to all the last couple of months with 30 works to all the last couple of the las

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#### HAMADS

9d. per line, minimum 2/-,

Advertisements under this heading will only be accepted from Institute Members who desire to dispose of equipment which is their own perdispose. The property of the month, and remittance must accompany advertisement. Calculation of cost is based on an average of six words a line. Dealer's advertisements not accepted in this column.

SELL .-- A 2JU 8 Valve Receiver, coils 80, 40, 20, Philips' Log Dial, Speaker, S Meter. What offers? L. Pinkevitch, 30 Buchanan St., Hamilton, Newcastle,

SELL—LM10 Frequency Meter. Best offer. L. Lawless, 12 Hall Street, West Brunswick, Vic.

WANTED.-Tuning Condenser out of RA10FA Receiver. Also 12 volt split reed Vibrator PM357. R. Campbell, Box 42. P.O. Sorrento. Vic.

# Muller

# RGAINS



### CONSOLE from 29/6

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Inenected No Mail Orders

Several models to choose from

#### RADIOGRAM CARINETS Resutiful



niono Snish cabinet with deep well changer Water fall front - lift. up lid. As illustrated

16 Cm Plus 15/- packing charge

#### NEW



changer 33-1/3, 45, 78 r.p.m. Plays Price complete, as illustrated, £26

#### IDEAL FOR SQUARE DANCING

#### Bargain High Fidelity Amplifier ONLY



29 CNG

IDEAL.

FOR

- · SUNDAY SCHOOLS SCHOOLS · DANCE HALLS · CHURCHES
- · FACTORIES A TOWN HALLS . SOCIAL CITIES · CARNIVALS

Made by Pre of England

71 watts, undistorted output, 230 volt, A.C. operated; 3 channel input; mike, pick-up and radio: inverse feedback and tone control. Output impedance: 500, 6, 1.25 and 2.5 ohms. Radio 0.37 volt. Valves: two 6AU6. one 807, one 5V4. Terms available in Vic. only; 6 Gns. deposit, 50/- monthly.

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- Weight 74 lbs. High fidelity 50 to 9,000 c.p.s.
- One hour playing for each spool, Self-contained motor Electronic erase head fitted.
- \* Built-in vernier control. \* Fast forward and rewind. Price complete, £40 Plus 12% Sales Tax

RARGAIN

ELECTRIC GRAMO UNIT



PLEASE ADD FREIGHT OR POSTAGE

Type 806 only 49/6

290 LONSDALE STREET, MELBOURNE

COLLARO MODEL 504 GRAMO UNIT

78 r.p.m. Turntable with high fidelity magnetic head. Synchronous motor and automatic stop. Brand new, complete, Cut to only £3/19/6

#### STOP PRESS RARGAINS

- Amplifier Cabinets complete with Five Valve Steel Chassis 17-
- 6K7G Valve, direct replacement for
- \* Acorn Tubes, brand new, type 954 and 955. Cut to only ....
- Type 7C7 Valves, brand new 7/6 \* Midget iron-cored I.F. Transformer
- \* 5 inch Speaker Boxes, only 9/11 Bradley 10,000 ohm Midget Poten-
- tiometer \* Two gang Tuning Condensers 6/11 \* 30 Henry 100 Ma. Power Chokes 12/11
- 12 volt Vibrators ....
- \* Type 913 1" Cathode Ray Tube 39/6 \* 0-1 Ma. English Meters, Only 22/6
- Eddystone Flexible Condenser Couplings. Only Technico FP8 Crystal Pick-ups with
- 29/6 0-20 volt Moving Coil Meters, 14/11 Brand new 8 uF. 525 volts Electro-
- 2/6 lytic Condensers Bargain imported Record Player,
- dual speed motor 33% and 78 r.p.m., high fidelity crystal pick-up for microgroove or standard recordings Complete, only .... £8/19/6 Half Megohm Potentiometers with
- D.P. Switch Mica Condenser Bargains: 0.0001,
- 0.00015, 0.0003, 0.0004, 0.0005 uF. 3/9 doz. 0.001, 0.002, 0.003, 0.004, 0.005, 0.006, 0.008 uF., 6/- doz. 0.01 Mica Condensers 1/3 each.

Central 4311



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Consistent with our policy of providing the Australian market with the highest quality and most economical range of components available, chosen from the world's sources, we now present some of the products of Italy's leading component manufacturers—Societa Per Azioni Gelose, of Milan. The workmanship of Italian cars and many other products is recognised as being thorough and complete. The same technique has been applied to radio accessories and we proudly offer microphones, crystal inserts and V.F.O. units to discerning Amateurs and Experimenters, through normal Distributor channels, at very low prices.

Each component is fully guaranteed against defective workmanship and faulty material.



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Transmitter V.F.O. Unit:

Transmitter V.F.U. Unit: Type M4/101: A very stable five-board three-tube V.F.O. onit. Bandis: 25-4. T-2.65, 14-44, 21-21.6. 28-20.8 Megacycles. Dalis: Fully calibrated and band Tubes: 835 oscillator, 6AUS inola-tic, 6VS output med supplied; ing 41 least 3.5 Ms. grid current to a single 90° on all bands. Power Supplies (not supplied with Power Supplies (not supplied with Priss: supplied; Soler Tau):

Price (including Sales Tax): £10/4/9

Crystal Microphones:

Type M/60 Pisseelectric Micro-phone: A very attractive chrome plated "ball" type microphone of small physical size, complete with three yards of twin shield-ed low loss cable. Thoroughly

List Price: £5/19/11

Type T/38: Hand Microphone is well proportioned brown bake life case. Unit stands on table without need for any stand Uses UN10 fully screened inser-Complete with 4 ft, of twi List Price: £3/12/-

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Type M400: Frequency response 40 - 7,000 cycles. Extremely robust and mechanically strong. Can withstand falls and knocks. No further casing is required as unit is complete as a microphone of attractive appearance. List Price: 32/11

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Full information from the Sole Australian Factory Representatives:

R.H.CUNNINGHAM PTY. LTD.

118 WATTLETREE ROAD, ARMADALE, S.E.3. CABLE "CUNNIG" MELBOURNE-TELEPHONE UV6274